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Art Unit: 3637 Attorney Docket No.: 062661

AMENDMENTS TO THE CLAIMS

The listing of claims below replaces all prior versions of claims in this application.

1. (Currently Amended) A rotary table system comprising:

a guide apparatus; and

a rotary table mounted on said guide apparatus;

said guide apparatus including a ring-shaped integrated rail having no discontinuity in a travel direction thereof, and a plurality of guide blocks that are assembled to said rail from a

direction of their surfaces opposing said rail;

wherein a top surface of said rail opposite to a surface thereof opposing said guide blocks

and an underside of said rotary table are joined together, and

wherein each of said plurality of guide blocks includes a U-shaped cross-sectional

opening and a portion of said rail is fitted into the U-shaped cross-sectional opening from above

the opening.

2. (Original) A rotary table system according to claim 1, wherein said rail has a

substantially L-shaped cross-sectional configuration formed from a vertical portion and a

horizontal portion extending from an upper end of said vertical portion in a radial direction of

said rotary table.

3. (Currently Amended) A rotary table system according to claim 1, further comprising:

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a tape scale provided on an outer peripheral surface of said rail; and

a detecting mechanism that <u>faces the outer peripheral surface of said rail and</u> detects an

amount of rotation of said rotary table by detecting said tape scale;

wherein a tape scale that is to be detected by said detecting mechanism is provided on an

outer peripheral surface of said rail.

4. (Previously Presented) A rotary table system according to claim 1, further comprising:

mounting sections having mounting surfaces to which said guide blocks are secured,

said mounting sections being equally spaced along a same circumference on a base that is a

separate member from said rail and guide blocks.

5. (Currently Amended) A rotary table system according to claim 1, wherein said rail has

a plurality of rolling element rolling surfaces formed along the travel direction of said rail; and

said guide blocks each including:

a guide block body having load rolling element rolling surfaces that form load

rolling element rolling passages in cooperation with said rolling element rolling surfaces,

said guide block body further having rolling element relief bores associated with said load

rolling element rolling surfaces; and

end plates provided at both ends of said guide block body in the travel direction of

said rail, said end plates each having rolling element direction change passages that form

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rolling element recirculation passages in cooperation with said load rolling element

rolling passages and <u>said</u> rolling element relief bores.

6. (Currently Amended) A rotary table system according to claim 2, further comprising:

a tape scale provided on an outer peripheral surface of said rail; and

a detecting mechanism that faces the outer peripheral surface of said rail and detects an

amount of rotation of said rotary table by detecting said tape scale;

wherein a tape scale that is to be detected by said detecting mechanism is provided on an

outer peripheral surface of said rail.

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7. (Previously Presented) A rotary table system according to claim 2, further comprising:

mounting sections having mounting surfaces to which said guide blocks are secured, said

mounting sections being equally spaced along a same circumference on a base that is a separate

member from said rail and guide blocks.

8. (Previously Presented) A rotary table system according to claim 3, further comprising:

mounting sections having mounting surfaces to which said guide blocks are secured,

said mounting sections being equally spaced along a same circumference on a base that is a

separate member from said rail and guide blocks.

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9. (Currently Amended) A rotary table system according to claim 2, wherein said rail has a plurality of rolling element rolling surfaces formed along the travel direction of said rail; said guide blocks each including:

a guide block body having load rolling element rolling surfaces that form load rolling element rolling passages in cooperation with said rolling element rolling surfaces, said guide block body further having rolling element relief bores associated with said load rolling element rolling surfaces; and

end plates provided at both ends of said guide block body in the travel direction of said rail, said end plates each having rolling element direction change passages that form rolling element recirculation passages in cooperation with said load rolling element rolling passages and <u>said</u> rolling element relief bores.

10. (Currently Amended) A rotary table system according to claim 3, wherein said rail has a plurality of rolling element rolling surfaces formed along the travel direction of said rail; said guide blocks each including:

a guide block body having load rolling element rolling surfaces that form load rolling element rolling passages in cooperation with said rolling element rolling surfaces, said guide block body further having rolling element relief bores associated with said load rolling element rolling surfaces; and

end plates provided at both ends of said guide block body in the travel direction of said rail, said end plates each having rolling element direction change passages that form

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rolling element recirculation passages in cooperation with said load rolling element

rolling passages and said rolling element relief bores.

11. (Currently Amended) A rotary table system according to claim 4, wherein said rail has

a plurality of rolling element rolling surfaces formed along the travel direction of said rail;

said guide blocks each including:

a guide block body having load rolling element rolling surfaces that form load

rolling element rolling passages in cooperation with said rolling element rolling surfaces,

said guide block body further having rolling element relief bores associated with said load

rolling element rolling surfaces; and

end plates provided at both ends of said guide block body in the travel direction of said rail, said

end plates each having rolling element direction change passages that form rolling element

recirculation passages in cooperation with said load rolling element rolling passages and said

rolling element relief bores.

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